

DYNAMIC SCALABLE FULL-PARALLAX
THREE-DIMENSIONAL ELECTRONIC DISPLAY

5 ABSTRACT OF THE DISCLOSURE

10 A system and method are provided to form a large
scale full-parallax three-dimensional electronic display.
Multiple lenslet pixel modules are preferably formed by
combining a high resolution two-dimensional image sources
with respective lenslets. For some applications each
pixel module has a respective two-dimensional high
resolution image source. For other applications two or
more lenslet pixel modules may use respective portions of
15 the same high resolution two-dimensional image source.
One or more computer processing units may be used to
provide video images or graphical image data to the high
resolution two-dimensional image sources. For some
electronic displays, the lenslet pixel modules form an
20 array of projectors and an array of sensors may be
disposed within the array of projectors. The array of
sensors may cooperate with the array of projectors to
allow interaction between one or more observers and a
three-dimensional image produced by the projector array.